

Section 1 - Identification of Chemical Product and Company

Amgrow Pty Ltd
PO Box 6390
Silverwater NSW 1811

Phone: (02) 9395 1200 (Business hours)
Fax: (02) 9395 1241

Trade Name: Amgrow Nitrosol Liquid Plant Food
Product Use: Garden Fertiliser
Creation Date: Dec 2006
Revised: June 2009

Section 2 - Hazards Identification

Statement of Hazardous Nature

This product is **not** classified as hazardous according to the criteria of NOHSC Australia.

Not a Dangerous Good according to the Australian Dangerous Goods (ADG) Code.

Risk Phrases: Not Hazardous - No criteria found.

Safety Phrases: Not Hazardous - No criteria found.

SUSDP Classification: None allocated.

ADG Classification: None allocated. Not a Dangerous Good.

UN Number: None allocated

Emergency Overview

Physical Description & colour: Brown Liquid Suspension

Odour: Fresh Organic

Major Health Hazards: No significant risk factors have been found for this product.

Potential Health Effects

This product is virtually non-toxic by normal routes of exposure. There is no data to suggest that chronic exposure has any adverse health effects in the way of carcinogenicity, mutagenicity or reproductive effects.

Ingestion: Data suggests that this product should present no significant problems to typical persons if used as intended. Ingestion of large amounts may cause gastrointestinal disorder, nausea, diarrhoea, vomiting.

Eye Contact: This product is mildly irritating to the eyes. It is likely to cause mild discomfort such as watering and redness of the eyes. However, this should quickly disappear once exposure is over and is unlikely to cause any significant lasting effects. However, avoid contact with eyes

Skin: Data suggests that this product should present no significant problems to typical persons if used as intended.

Inhalation: Data suggests that this product should present no significant problems to typical persons if used as intended

Carcinogen Status:

ASCC: No significant ingredient is classified as carcinogenic by ASCC at stated concentration.

NTP: No significant ingredient is classified as carcinogenic by NTP at stated concentration

IARC: No significant ingredient is classified as carcinogenic by IARC at stated concentration

Section 3 - Composition/Information on Ingredients

Ingredients	CAS No	Conc, %	TWA (mg/m ³)	STEL (mg/m ³)
Non hazardous ingredients*	Various	50 to 60	not set	not set
Water	7732-18-5	to 100	not set	not set

This includes ammonium sulphate, urea, potassium hydroxide, potassium sulphate, Superphosphate and other salts plus organic sources such as blood & bone. This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non hazardous ingredients are also possible.

The TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. The STEL (Short Term Exposure Limit) is an exposure value that should not be exceeded for more than 15 minutes and should not be repeated for more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak" is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.

MATERIAL SAFETY DATA SHEET

Section 4 - First Aid Measures

General Information:

You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 13 1126 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this MSDS with you when you call.

Inhalation: No hazards which require special first aid measures as this product is not volatile

Skin Contact: No hazards which require special first aid measures. Take normal precautions to minimise prolonged contact. Wash with soap and water

Eye Contact: Flush the contaminated eye(s) with lukewarm, gently flowing water until the product is removed or until irritation has ceased, while holding the eyelid(s) open. Obtain medical advice if irritation becomes painful or lasts more than a few minutes.

Ingestion: This product is not considered toxic. Swallowing a small amount is not normally harmful. Immediately rinse mouth with water.

Section 5 - Fire Fighting Measures

Fire and Explosion Hazards: There is no risk of an explosion from this product under normal circumstances if it is involved in a fire.

Extinguishing Media: Not Combustible. Use extinguishing media suited to burning materials.

Special Fire Fighting Precautions: Fire decomposition products may form toxic and corrosive mixtures in confined spaces. Likely to decompose only after heating to dryness followed by further strong heating.

Flash point: Does not burn.

Upper Flammability Limit: Does not burn.

Lower Flammability Limit: Does not burn.

Autoignition temperature: Not applicable - does not burn.

Flammability Class: Does not burn.

Section 6 - Accidental Release Measures

Accidental release: Minor spills do not normally need any special cleanup measures. In the event of a major spill, prevent spillage from entering drains or water courses. As a minimum, wear overalls, goggles and gloves. Usually, no respirator is necessary when using this product. However, if you have any doubts consult the Australian Standard mentioned below (section 8).

Stop leak if safe to do so, and contain spill. Absorb onto sand, vermiculite, or other suitable absorbent material. Clean up promptly by sweeping, avoiding production of dust, scoop or vacuum. Keep in suitable and closed containers for disposal. After cleaning, wash area with large quantities of water, preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. This material may be suitable for approved landfill. Ensure legality of disposal by consulting regulations prior to disposal.

Section 7 - Handling and Storage

Handling: Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this MSDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

Storage: Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight. Make sure that the product does not come into contact with substances listed under "Materials to avoid" in Section 10. Check packaging - there may be further storage instructions on the label.

Section 8 - Exposure Controls and Personal Protection

The following Australian Standards will provide general advice regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Industrial Clothing: **AS2919**, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

(mg/m ³)	Exposure Limits	TWA (mg/m ³)	STEL
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No exposure limits have been assigned to this product, but a limit of 10mg/m³ is recommended for an 8 hour day, 40 hour week. The exposure limit is a TWA for an 8hr day, 5 day week.

No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

Ventilation: No special ventilation requirements are normally necessary for this product.

Eye Protection: Eye protections such as protective glasses or goggles are not normally necessary when using this product, however it is always prudent to use protective eyewear.

Skin Protection: Protective clothing is not normally required but wearing of gloves is good practice.

Respirator: Usually, no respirator is necessary when using this product.

Section 9 - Physical and Chemical Properties:

Physical Description & colour:	Brown liquid suspension
Odour:	Fresh organic odour
Melting Point:	Not applicable
Flash Point:	Not Applicable, does not burn
Boiling Point & Vapour Pressure:	Approx 100°C at 100kPa
Vapour Density:	No data.
Specific Gravity:	Approx 1.3
Water Solubility:	Insoluble - Suspension
Volatility:	No data.

Section 10 - Stability and Reactivity

Stability: This product is stable

Polymerisation: This product is unlikely to spontaneously polymerise

Materials to Avoid: No particular incompatibilities.

Fire Decomposition: Fire decomposition products may form toxic and corrosive mixtures in confined spaces. Likely to decompose only after heating to dryness followed by further strong heating.

Section 11 - Toxicological Information & Health Effects

Toxicity:

Oral: Not toxic: **Dermal:** Not toxic:

Irritation:

Skin: May cause mild irritation if in frequent or prolonged exposure to skin

Eyes: May cause mild irritation

Section 12 - Ecological Information

Ecotoxicological Information: Aquatic toxicity is expected to be low

Environmental Data: Product is non-toxic to the environment

Persistence and Degradability: No data

Bioaccumulation: Low

Section 12 - Disposal Considerations

Disposal: Instructions for the disposal of containers is found on the product label.

Section 13 - Transport Information

ADG Code: This product is not classified as a Dangerous Good. No special transport conditions are necessary unless required by other regulations.

Section 14 - Regulatory Information

This product is not a hazardous article and need not be labelled according to EC directives

MATERIAL SAFETY DATA SHEET

Section 15 - Other Information

This MSDS contains only safety-related information. For other data see product literature.

Acronyms:

ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail
AICS	Australian Inventory of Chemical Substances
CAS number	Chemical Abstracts Service Registry Number
Hazchem Number	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
IARC	International Agency for Research on Cancer
NOHSC	National Occupational Health and Safety Commission
NOS	Not otherwise specified
NTP	National Toxicology Program (USA)
R-Phrase	Risk Phrase
SUSDP	Standard for the Uniform Scheduling of Drugs & Poisons
UN Number	United Nations Number

THIS MSDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS MSDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS. OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.

Please read all labels carefully before using product.

This MSDS is prepared in accord with the NOHSC document "National Code of Practice for the Preparation of Material Safety Data Sheets" 2nd Edition [NOHSC:2011(2003)]
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This version June 2009

<http://www.kilford.com.au/> Phone (02)9251 4532